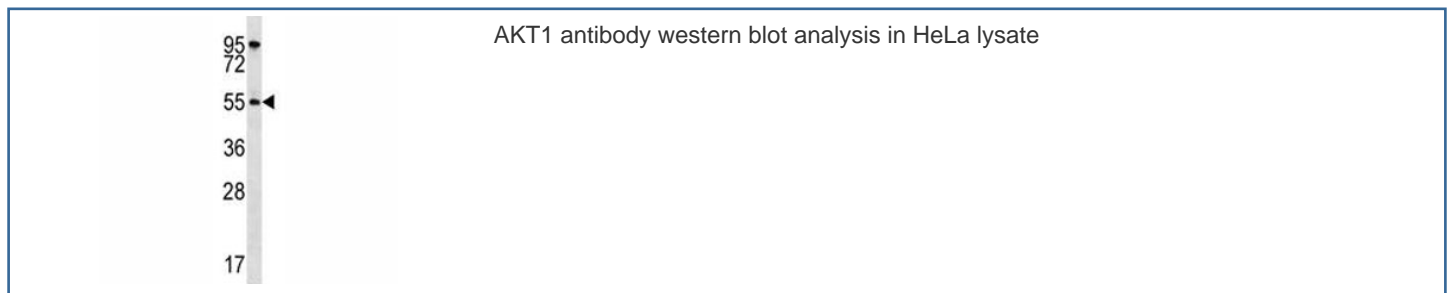


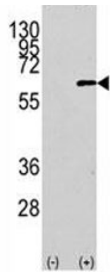
AKT1 Antibody (F50139)

Catalog No.	Formulation	Size
F50139-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50139-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

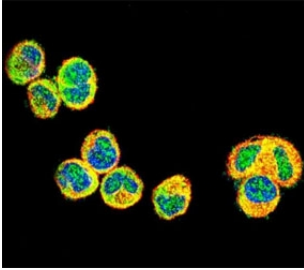
[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Bovine
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P31749
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50
Limitations	This AKT1 antibody is available for research use only.

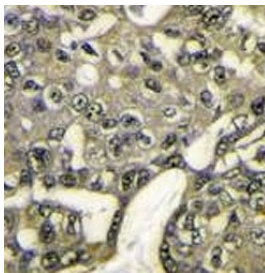




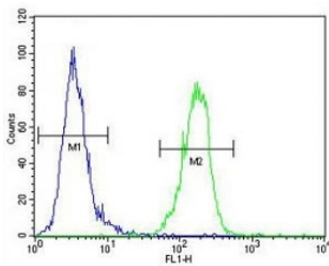
Western blot analysis of AKT1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the human gene (2).



AKT1 Antibody MDA-MB-435 IF. Immunofluorescence testing of AKT1 antibody with MDA-MB435 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments stained red; DAPI nuclear counterstain (blue).



IHC analysis of FFPE human breast carcinoma stained with AKT1 antibody



AKT1 antibody flow cytometric analysis of MDA-MB435 cells (green) compared to a negative control (blue).

Description

AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. It and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.

For a microarray-validated AKT1 antibody supporting high-specificity detection, see our [AKT1 antibody \(clone AKT1/2552\)](#).

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the AKT1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 115-144 from the human protein was used as the immunogen for this AKT1 antibody.

Storage

Store at 4°C for up to one month. For long term, aliquot the AKT1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.